PATENT COOPERATION TREATY





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JRISO-79-PCT	FOR FURTHER ACT	TION	See Form PCT/IPEA/416
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/JP2003/012315	26 September 2003	3 (26.09.2003)	27 September 2002 (27.09.2002)
International Patent Classification (IPC) or n B41F 23/04, B41L 23/20, B41J	ational classification and 2 2/01	IPC	
Applicant	RISO KAGAKU C	ORPORATION	
This report is the international prelimation Authority under Article 35 and trans	minary examination repor smitted to the applicant ac	t, established by this cording to Article 3	s International Preliminary Examining 6.
This REPORT consists of a total of This report is also accompanied by		ncluding this cover	sheet.
-	d to the International Bure	eau) a total of	sheets, as follows:
sheets of the desc and/or sheets cor Administrative I	itaining rectifications auth	wings which have t norized by this Auth	peen amended and are the basis of this report cority (see Rule 70.16 and Section 607 of the
sheets which sup beyond the discl Supplemental Bo	osure in the international	which this Authorit application as filed,	ry considers contain an amendment that goes , as indicated in item 4 of Box No. I and the
b. (sent to the Internation	onal Bureau only) a to , contain , contain ndicated in the Supplement	ing a sequence listi	ype and number of electronic carrier(s)) ng and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the
This report contains indications rel	ating to the following iten	ns:	
Box No. I Basis of the	report		
Box No. II Priority			the transfer of the time
Box No. III Non-establis	hment of opinion with reg	gard to novelty, inve	ntive step and industrial applicability
	y of invention		
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain docu	ments cited	-	
Box No. VII Certain defe	cts in the international app	plication	
Box No. VIII Certain obse	ervations on the internation	nal application	
Date of submission of the demand		Date of completion	n of this report
12 February 2004 (12.	02.2004)	.0	22 June 2004 (02.06.2004)
Name and mailing address of the IPEA/JF		Authorized officer	r -
Facsimile No.		Telephone No.	

Translation



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/012315

Box No. I	Basis of the report				
	gard to the language, this report is based on the international application in the language in which it was filed, unless se indicated under this item.				
	his report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:				
	international search (under Rules 12.3 and 23.1(b))				
	publication of the international application (under Rule 12.4)				
	international preliminary examination (under Rules 55.2 and/or 55.3)				
furnishe and are	gard to the elements of the international application, this report is based on (replacement sheets which have been d to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" not annexed to this report):				
	ne international application as originally filed/furnished				
ı —	e description:				
	ges, as originally filed/furnished ges* received by this Authority on				
1	ges* received by this Authority on				
j	e claims:				
	ges, as originally filed/furnished ges*, as amended (together with any statement) under Article 19				
_	and the state of t				
1	received by this Authority on received by this Authority on				
	e drawings:				
	ges, as originally filed/furnished received by this Authority on				
	received by this Authority on				
l —					
	sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.				
3 TI	ne amendments have resulted in the cancellation of:				
	the description, pages				
	the claims, Nos.				
	the drawings, sheets/figs				
	the sequence listing (specify):				
Ī	any table(s) related to sequence listing (specify):				
m	nis report has been established as if (some of) the amendments annexed to this report and listed below had not been ade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box cule 70.2(c)). the description, pages				
	the claims, Nos.				
	the drawings, sheets/figs				
	the sequence listing (specify):				
	any table(s) related to sequence listing (specify):				
* If item 4	applies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interna	application No.
D	CT/TD02/12215

Box No	. IV	Lack of unity of invention
1.	In	response to the invitation to restrict or pay additional fees the applicant has:
		restricted the claims.
		paid additional fees.
		paid additional fees under protest.
		neither restricted nor paid additional fees.
2. 🔀	This not t	Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, o invite the applicant to restrict or pay additional fees.
3. This		rity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
	_	omplied with.
recordi Cla mediu the san	aims ing s aim 1 m a l ne tin	1-15 pertain to a fixing device for curing and fixing a light-curing ink that is printed on a surface of a recording medium. 6 pertains to a printing device for transferring to a recording surface of a recording ight-curing ink that has an image on the outer peripheral surface of a fixing body, while at me curing and fixing the light-curing ink that has been transferred to the recording surface ding medium. The two inventions cannot be said to form a single general inventive concept.
	•	
		•
4. Cons	equen	ly, this report has been established in respect of the following parts of the international application:
	\boxtimes	all parts.
		the parts relating to claims Nos.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interna application No.
PCT/JP03/12315

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Novelty (N)	Claims	2-5, 9, 10, 12, 13	YE
	Claims	1, 6-8, 11, 14-16	NO
Inventive step (IS)	Claims	4, 5, 12, 13	YE
	Claims	1-3, 6-11, 14-16	NC
Industrial applicability (IA)	Claims	1-16	YE
	Claims		NC

2. Citations and explanations (Rule 70.7)

Document 1: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 187281/1982 (Laid-open No. 90422/1984) (Toyo Shigyo Printing Co., Ltd.), June 19, 1984

Document 2: JP 2001-179960 A (Canon Inc.), July 3, 2001

Document 3: JP 05-024222 A (Fuji Photo Film Co., Ltd.), February 2, 1993

Document 1 (page 4, line 7 to page 5, line 12) describes the inventions relating to claims 1, 6-8, 11, 14 and 15; therefore, these inventions do not appear to be novel or to involve an inventive step.

Document 3 (column 3, line 33 to column 5, line 10) describes the invention relating to claim 16; therefore, the invention does not appear to be novel or to involve an inventive step.

The inventions relating to claims 2 and 3 do not appear to involve an inventive step based on document 1. In document 1, because fixing on the entire recording medium surface is a usual selection by a person skilled in the art, it would be obvious for a person skilled in the art to make the full length of the rotation axis direction of a fixing body and carrier equal to or greater than the width of a recording medium. Further, cycle rate of the fixing body and the carrier is a matter that a party skilled in the art can set as appropriate in accordance with required carrier efficiency and fixability; it would be easy for a person skilled in the art to conceive of making the cycle rate of the fixing body and the carrier equivalent to the carrier speed of the carrier.

The invention relating to claim 9 does not appear to involve an inventive step based on documents 1 and 3. Document 2 (column 2, lines 15-18) describes the point of providing drive means on a fixing body, and it would be obvious for a person skilled in the art to conceive of adopting the matters described in document 2 to the fixing body described in document 1.

The invention relating to claim 10 does not appear to involve an inventive step based on document 1. Document 1 describes the point of light-curing ink being an ultraviolet ray curing ink. A radical polymer ink is an ink very commonly used as an ultraviolet curing ink, and using a radical polymer ink in the invention described in document 1, would be obvious to a person skilled in the art.

None of the documents cited in the ISR describes the inventions relating to claims 4, 5, 12 and 13, nor are they obvious to a person skilled in the art.

INTERNATIONAL PRELIM. RY REPORT ON PATENTABILITY

Interna application No.
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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description in claim 16 is not clear. Namely, claim 16 cites claim 15, and describes "said printing part" and "said fixing body"; however, because the "printing part" and "fixing body" described in claim 15, and the printing part" and "fixing body" described in claim 16 are members with different functions, it is not clear to what extent claim 16 cites claim 15.